ABSTRACT

A mechanical power conversion device for receiving rotary power from a rotary power supply and delivering two independent power outputs, the conversion device having: a drive screw connectable to the rotary power supply, a drive nut engaging the drive screw to receive a drive nut axial force and drive nut torsion therefrom, the drive nut axial force being parallel to the drive screw and the drive nut torsion being about an axis of the drive screw. One of the two independent power outputs is connected to the drive nut to receive the drive nut axial force and the second is connected to the drive nut to receive the drive nut torsion so that power from the rotary power supply flows to either or both of the first independent power output and the second independent power output.